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This device complies with Part 18 of the FCC ${\it Rules.}$

(3) The name and address of the responsible party as defined in §2.909 of the rules. This party must be located within the United States.

(b) The compliance information may be placed in the instruction manual, on a separate sheet, or on the packaging. There is no specific format for this information.

[63 FR 36603, July 7, 1998]

§18.213 Information to the user.

Information on the following matters shall be provided to the user in the instruction manual or on the packaging if an instruction manual is not provided for any type of ISM equipment:

(a) The interference potential of the device or system

(b) Maintenance of the system

(c) Simple measures that can be taken by the user to correct interference.

(d) Manufacturers of RF lighting devices must provide an advisory statement, either on the product packaging or with other user documentation, similar to the following: This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Variations of this language are permitted provided all the points of the statement are addressed and may be presented in any legible font or text style.

[50 FR 36069, Sept. 5, 1985, as amended at 51 FR 17970, May 16, 1986; 64 FR 37419, July 12, 1999]

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Subpart C—Technical Standards

§18.301 Operating frequencies.

ISM equipment may be operated on any frequency above 9 kHz except as indicated in §18.303. The following frequency bands, in accordance with §2.106 of the rules, are allocated for use by ISM equipment:

ISM frequency	Tolerance
6.78 MHz 13.56 MHz 27.12 MHz 40.68 MHz 915 MHz 2,450 MHz 2,450 MHz 2,450 MHz 24,125 GHz 40.62 GHz	±15.0 kHz ±7.0 kHz ±163.0 kHz ±20.0 kHz ±13.0 MHz ±50.0 MHz ±75.0 MHz ±75.0 MHz ±125.0 MHz ±250.0 MHz
122.50 GHz	±500.0 MHz
240.00 GHZ	±1.0 GHZ

NOTE: The use of the 6.78 MHz ± 15 kHz frequency band is subject to the conditions of footnote 524 of the Table of Allocations. See §2.106.

§18.303 Prohibited frequency bands.

Operation of ISM equipment within the following safety, search and rescue frequency bands is prohibited: 490–510 kHz, 2170–2194 kHz, 8354–8374 kHz, 121.4– 121.6 MHz, 156.7–156.9 MHz, and 242.8– 243.2 MHz.

§18.305 Field strength limits.

(a) ISM equipment operating on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.

(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

Equipment	Operating frequency	RF Power gen- erated by equip- ment (watts)	Field strength limit (uV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous).	Any ISM frequency	Below 500 500 or more	25 25×SQRT(power/500)	300 1300
	Any non-ISM frequency	Below 500 500 or more	15 15×SQRT(power/500)	300 1300
Industrial heaters and RF stabilized arc welders.	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (²)	1,600 (²)
Medical diathermy	Any ISM frequency Any non-ISM frequency	Any Any	25 15	300 300
Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)× SQRT(power/500).	300 ³ 300
	490 to 1,600 kHz	Any	24,000/F(kHz)	30 30

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Equipment	Operating frequency	RF Power gen- erated by equip- ment (watts)	Field strength limit (uV/m)	Distance (meters)
Induction cooking ranges	Below 90 kHz	Any	1,500	430
	On or above 90 kHz	Any	300	430

¹ Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
² Reduced to the greatest extent possible.
³ Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
⁴ Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

(c) The field strength limits for RF lighting devices shall be the following:

Frequency (MHz)	Field strength limit at 30 meters (µV/ m)
Non-consumer equip- ment:	
30–88	30
88–216	50
216–1000	70
Consumer equipment:	
30–88	10
88–216	15
216–1000	20

(a) All Induction cooking ranges and ultrasonic equipment:

Frequency of emis-	Conducted limit (dBµV)		
sion (MHz)	Quasi-peak	Average	
0.009–0.05	110	_	
0.05–0.15	90–80 *	_	
0.15–0.5	66 to 56 *	56 to 46*	
0.5–5	56	46	
5–30	60	50	

* Decreases with the logarithm of the frequency.

(b) All other part 18 consumer devices:

	Frequency of emis-	Conducted I	limit (dBµV)	
sion (MHz)		Quasi-peak	Average	
	0.15–0.5 0.5–5 5–30	66 to 56 * 56 60	56 to 46* 46 50	

* Decreases with the logarithm of the frequency.

(c) RF lighting devices:

Frequency (MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN (uV)
Non-consumer equipment:	
0.45 to 1.6	1,000
1.6 to 30	3,000
Consumer equipment:	
0.45 to 2.51	250
2.51 to 3.0	3,000
3.0 to 30	250

(d) If testing with a quasi-peak detector demonstrates that the equipment complies with the average limits specified in the appropriate table in this section, additional testing to demonstrate compliance using an average detector is not required.

(e) These conduction limits shall apply only outside of the frequency bands specified in §18.301.

(f) For ultrasonic equipment, compliance with the conducted limits shall preclude the need to show compliance with the field strength limits below 30

Notes

1. The tighter limit shall apply at the boundary between two frequency ranges.

2. Testing for compliance with these limits may be made at closer distances, provided a sufficient number of measurements are taken to plot the radiation pattern, to determine the major lobes of radiation, and to determine the expected field strength level at 30, 300, or 1600 meters. Alternatively, if measurements are made at only one closer fixed distance, then the permissible field strength limits shall be adjusted using 1/d as an attenuation factor.

[50 FR 36070, Sept. 5, 1985, as amended at 51 FR 17970, May 16, 1986; 52 FR 43197, Nov. 10, 19871

§18.307 Conduction limits.

For the following equipment, when designed to be connected to the public utility (AC) power line the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a 50 $\mu H/50$ ohms line impedance stabilization network (LISN).